Department of Energy
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Cincinnati, Ohio 45253-8705
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Mr. Gene Jablonowski, Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0118-00

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Jablonowski and Mr. Schneider:

SILOS 1 AND 2 ACCELERATED WASTE RETRIEVAL PROJECT DESIGN DELIVERABLES SCHEDULE

The purpose of this letter is to submit the Fernald Environmental Management Project (FEMP) Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project Design Deliverables Schedule. Based on the AWR remediation contractor's (Foster Wheeler) schedule, DOE-FEMP plans to provide the following submittals for review and approval:

Draft Remedial Design Package for Silos 1 and 2 AWR Project	March 31, 2000
Draft Remedial Action Work Plan for the Waste Retrieval Operations	December 31, 2002

If you have any questions, please contact Dave Yockman at (513) 648-3141.

Sincerely,

Johnny Reising

Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Yockman

Enclosure

Recycled and Recyclable

cc w/enclosure:
S. Fauver, EM-42/CLOV
N. Hallein, EM-42/CLOV
N. Akgündüz, OH/FEMP
J. Reising, OH/FEMP
D. Yockman, OH/FEMP
J. Saric, USEPA-V, SRF-5J
T. Schneider, OEPA-Dayton (three copies of enclosures)
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
R. Vandegrift, ODH
F. Barker, Tetra Tech
AR Coordinator, FDF/78

cc w/o enclosure:
A. Tanner, OH/FEMP
T. Hagen, FDF/65-2
J. Harmon, FDF/90
R. Heck, FDF/2
S. Hinnefeld, FDF/31
D. Paine, FDF/52-4
S. Peterman, FDF/52-4
P. Pimentel, FDF/14
T. Walsh, FDF/65-2
ECDC, FDF/52-7

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FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SILOS 1 AND 2 ACCELERATED WASTE RETRIEVAL PROJECT

REMEDIAL DESIGN DELIVERABLES

SCHEDULE

NOVEMBER 1999

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SILOS 1 AND 2 ACCELERATED WASTE RETRIEVAL PROJECT
REMEDIAL DESIGN DELIVERABLES

A. Design Package

The Design Package will contain substantive information from the comprehensive documents prepared by the Foster Wheeler Environmental Corporation (FWENC) pursuant to the contract. The Design Package will include the following information:

- Design documentation
  - Process Control Plan
  - Process description
  - Process flow diagram
  - Heat and material balance
  - General arrangement drawing
  - HVAC flow and control diagram

- Environmental Control Plan (Description of site preparation activities including methods and materials used to control erosion, dust, and stormwater and minimize the impact of activities on the environment). It will include Air Emissions Control, Dust Control, Wastewater Control, Stormwater Control, Erosion Control, Waste Management and ARAR Compliance Matrix.

- Contingency plan;

- Sampling and Analysis Plan;

B. Remdial Action Strategy

On February 26, 1999, a firm fixed price contract was awarded to FWENC based in Oak Ridge, Tenn. FWENC will design, construct, test, operate and maintain a waste retrieval system consisting of the following major components:

Radon Control System (RCS) Phase I and II – RCS Phase I shall control and reduce the radon concentration in the silo's headspace to established concentration limits. RCS Phase II shall ensure radon control during retrieval, storage, and transfer of the silos material.

Silos Waste Retrieval System (SWRS) – The SWRS shall retrieve all material from the silos. This system shall transfer the residues, Bentogrout, and heel material to the transfer tanks. Discrete objects, such as glove bags, conduit and various tools shall be retrieved and packaged in accordance with the FDF Waste Management Program. The SWRS shall perform gross decontamination of the silos.

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Transfer Tank Area (TTA) – The TTA consists of transfer tanks. It is a staging area for the residue and BentoGrout™ which will be transferred for remediation to a Full-Scale Remediation Facility (future processing facility for the remediation of the silo's residues, which is not part of the scope of this contract).

Transfer Tank Area Waste Retrieval System (TWRS) – The TWRS shall retrieve the residue and BentoGrout™ from the TTA and transfer them to the future Full-Scale Remediation Facility.

Decant Sump Waste Retrieval System (DWRS) – The DWRS shall retrieve all materials from the decant sump. The decant sump was designed to collect decant liquids from the silos. Through process knowledge, it is known that the decant sump tank also contains approximately 1,000 gallons of sludge/solids in a heel. The DWRS shall segregate and transfer/package them as appropriate. The DWRS shall perform gross decontamination of the decant sump.

Full Scale Mock-up System – To validate the Contractor's design and material retrieval method, a Full-Scale Mock-up (FSM) Integrated Construction Acceptance Test shall be performed with the Silos 4 Full-Scale Mock-up System (FSMS). The Contractor shall incorporate the lessons learned from the FSM ICAT into the AWR Project prior to beginning operations. This system shall also be utilized for operator training, readiness preparations, and troubleshooting during SWRS operations.

On March 16, 1999, FDF issued FWENC the Notice to Proceed (NTP) for remediation of the material contained in Silos 1 and 2. In order to minimize worker exposure to silos headspace radon, the Contractor shall complete the design and construction and begin operations of the RCS Phase I as early as possible. The AWR operation includes the removal of the soil berm from around the silos during the material removal activity.

Gross decontamination will be performed on the exterior of equipment and process systems and interior of the silos after all materials have been removed.

C. *Design Submittals Schedule*

FWENC has begun the document submittal process and has provided a schedule identifying submittal dates for the required design deliverables, which FDF has reviewed and accepted. Based on this schedule, the milestone dates for submittals to your agencies are the following:

Draft Remedial Design Package for Silos 1 and 2 AWR Project	March 31, 2000
Draft Remedial Action Work Plan for the Waste Retrieval Operations	December 31, 2002

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As FWENC submits the design deliverables, FDF will ensure the requirements, as set forth in the contract, are incorporated into the design and planned operations. As the project progresses, FDF will maintain the involvement of the regulators and Stakeholders.

D. Remedial Action Work Plan (RAWP)

Following approval of the Remedial Design Package by the EPAs, a RAWP will be prepared and submitted to the EPAs. This plan will specify the implementation strategy and the milestones for the operation phase of the AWR project.

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